



HCM-003-001522

Seat No. _____

B. Sc. (Sem. V) (CBCS) Examination

October – 2017

CA - 502 : Programming with Java

Faculty Code : 003

Subject Code : 001522

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :**
- (1) All questions are compulsory.
 - (2) Figures on the right indicates full marks.

1 Attempt the following : 20

- (1) Which two types of programs can be created using Java?
- (2) Which mechanism binds together code and the data it manipulates, and keeps both safe from outside interference and misuse?
- (3) For which type of arguments Java has a Boolean type?
- (4) Which keyword has no return type, not even void?
- (5) What is used to inherit one class to another class?
- (6) Which method of thread is used to specify a maximum amount of time that you want to wait for specified thread to terminate?
- (7) Which is not a reserved keyword in Java?
- (8) Which operator is used to create and concatenate string?
- (9) Which block in exception contains any code that must be executed before a method returns?
- (10) Which method wake up the first thread that is called by object?
- (11) What is the vector class?

- (12) What is the use of super keyword in Java?
- (13) What is used to create a Java thread?
- (14) How can a class file from one package can be accessible to remote location of other package?
- (15) Which character is written after value to be assigned to float variable for type casting?
- (16) To what all numeric data types having size less than integer is promoted to at the time of equation evaluation?
- (17) Of what type all real constants are by default?
- (18) Which members are shared among objects?
- (19) Which class cannot have child class?
- (20) By what name Java language was initially called?

2 (A) Attempt any **Three** : **6**

- (1) Explain main Three characteristic of Java.
- (2) Write about inheritance concept in Java.
- (3) What is use of keyword super, extends and implements in Java ?
- (4) Give the full form of JDK, JRE, JIT.
- (5) Give the use of finally in exception handling in Java.
- (6) Give the syntax of <Applet>.

(B) Answer the following : (Any **Three**) **9**

- (1) Write in brief about JVM.
- (2) Define the term class and object with example.
- (3) Draw program structure of Java with example.

- (4) What is type conversion and type casting? Explain with example.
- (5) Explain the use of exception and exception handling in Java.
- (6) Write a note on wrapper class.

(C) Answer any **Two** : **10**

- (1) Write Java program to generate pyramid of given string from command line argument.
- (2) What is Package? Explain how to define package with Java code.
- (3) Write a note on Thread life cycle.
- (4) Write a Java applet program that print color as background of an applet as selected from choice.
- (5) Explain the Java Program Structure. Give the basic steps for creating, compiling and running a Java Program.

3 (A) Attempt any **Three** : **6**

- (1) What is an applet? How it is useful for web programming?
- (2) Write in brief about Graphic class and its various methods.
- (3) What is Exception handling? How it is useful?
- (4) What is a class and object in Java?
- (5) What is an Exception?
- (6) What is Bean?

(B) Answer the following : (Any **Three**) **9**

- (1) What are Visibility controls in Java?
- (2) How we can use the command line arguments in Java?
- (3) Define the term Portable.
- (4) Explain term Javac and Java.
- (5) Differentiate: Extends *v/s* Implements.
- (6) Explain the implementation of multiple inheritance in Java.

(C) Answer any **Two** : **10**

- (1) Write a Java program that accept a number and print the sum of the digits.
- (2) Write a program code for an Applet life cycle with all its methods.
- (3) Write simple code of servlet to print "Hello" on browser.
- (4) Explain hierarchy level of Applet class.
- (5) Write an applet to draw the smiley face.
